

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.

SERIAL NO.

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

B08369-00002

APPLICANT:

John F. Catalano and Paul H. Magnant

(Use several sheets if necessary)

FILING DATE:

GROUP:

JOE25 U.S. PTO
09/677257
10/02/00

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

| EXAMINER INITIALS | | DOCUMENT NUMBER | | | | | | | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPRO.) |
|----------------------|----|--------------------|---|---|---|---|---|---|---------------|---------------|-------|----------|----------------------------|
| <i>Scl</i> | BA | 5 | 9 | 3 | 7 | 0 | 8 | 2 | Aug. 10, 1999 | Funada | 382 | 125 | |
| | BB | 5 | 9 | 1 | 5 | 0 | 3 | 5 | Jun. 22, 1999 | Hsiao et al. | 382 | 125 | |
| | BC | 5 | 8 | 8 | 3 | 9 | 7 | 1 | Mar. 16, 1999 | Bolle et al. | 382 | 124 | |
| | BD | 5 | 6 | 3 | 1 | 9 | 7 | 1 | May 20, 1997 | Sparrow | 382 | 125 | |
| | BE | 5 | 5 | 0 | 9 | 0 | 8 | 3 | Apr. 16, 1996 | Abtahi et al. | 382 | 124 | |
| | BF | 5 | 4 | 9 | 3 | 6 | 2 | 1 | Feb. 20, 1996 | Matsumura | 382 | 125 | |
| | BG | 5 | 4 | 2 | 0 | 9 | 3 | 7 | May 30, 1995 | Davis | 382 | 125 | |
| | BH | 5 | 1 | 7 | 7 | 7 | 9 | 2 | Jan. 5, 1993 | Morita | 382 | 4 | |
| | BI | 5 | 1 | 0 | 5 | 4 | 6 | 7 | Apr. 14, 1992 | Kim et al. | 382 | 4 | |
| | BJ | 4 | 8 | 7 | 2 | 2 | 0 | 3 | Oct. 3, 1989 | Asai et al. | 382 | 4 | |
| | BK | 4 | 2 | 0 | 8 | 6 | 5 | 1 | Jun. 17, 1980 | McMahon | 340 | 146.3 | |
| | BL | 4 | 0 | 4 | 7 | 1 | 5 | 4 | Sept. 6, 1977 | Vitols et al. | 340 | 146.3 | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| | BM | | | | | | |
| | BN | | | | | | |
| | BO | | | | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|--|----|--|
| | BP | |
| | BQ | |
| | BR | |

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Sheeb Chan

11/24/03

FORM, PTO-1449 (Modified)

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B08369-00002

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JC825 U.S. PTO
09/677257

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U.S. PATENT DOCUMENTS

| EXAMINER INITIALS | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE (IF APPRO.) |
|----------------------|----|--------------------|---------------|------------------|-------|----------|----------------------------|
| <i>Sce</i> | AA | 6 0 9 2 1 9 2 | Jul. 18, 2000 | Kanevsky et al. | 713 | 186 | |
| | AB | 6 0 7 2 8 9 5 | Jun. 6, 2000 | Bolle et al. | 382 | 125 | |
| | AC | 6 0 6 4 7 5 3 | May 16, 2000 | Bolle et al. | 382 | 125 | |
| | AD | 6 0 4 9 6 2 1 | Apr. 11, 2000 | Jain et al. | 382 | 125 | |
| | AE | 6 0 4 9 6 2 0 | Apr. 11, 2000 | Dickinson et al. | 382 | 124 | |
| | AF | 6 0 4 1 1 3 3 | Mar. 21, 2000 | Califano et al. | 382 | 124 | |
| | AG | 6 0 2 3 5 2 2 | Feb. 8, 2000 | Draganoff et al. | 382 | 124 | |
| | AH | 6 0 1 8 5 8 6 | Jan. 25, 2000 | Kamei | 382 | 125 | |
| | AI | 6 0 1 6 4 7 6 | Jan. 18, 2000 | Maes et al. | 705 | 1 | |
| | AJ | 6 0 0 5 9 6 3 | Dec. 21, 1999 | Bolle et al. | 382 | 124 | |
| | AK | 5 9 9 5 6 4 0 | Nov. 30, 1999 | Bolle et al. | 382 | 124 | |
| | AL | 5 9 6 3 6 5 6 | Oct. 5, 1999 | Bolle et al. | 382 | 124 | |
| <i>Sce</i> | AM | 5 9 5 3 4 4 3 | Sep. 14, 1999 | Hiratsuka et al. | 382 | 125 | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|------------|----|-----------------|-----------------|---------------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| <i>Sce</i> | AN | WO 99/26187 ✓ | 27 May 1999 | International | | | | |
| | AO | WO 99/56429 ✓ | 4 November 1999 | International | | | | |
| | AP | H10-63844 ✓ | 6 March 1998 | Japan | | | YES | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

| | | |
|------------|----|--|
| <i>Sce</i> | AQ | "Adaptive flow orientation based feature extraction in fingerprint images," by Ratha et al., Department of Computer Science, Michigan State University, Michigan, February 12, 1995. |
| | AR | "An Identity Authentication System Using Fingerprints," by Jain et al., Department of Computer Science, Michigan State University, Michigan, and Exploratory Computer Vision Group, IBM T.J. Watson Research Center, New York. |
| | AS | "Fingerprint Image Enhancement: Algorithm and Performance Evaluation," by Hong et al., Pattern Recognition and Image Processing Laboratory, Department of Computer Science, Michigan State University, Michigan. |

EXAMINER

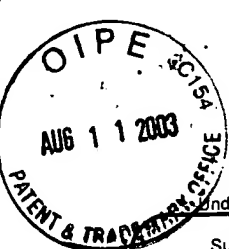
DATE CONSIDERED

*Sheel Chandra**11/24/03*

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 09/677,257 |
| Filing Date | October 2, 2000 |
| First Named Inventor | John F. CATALANO |
| Art Unit | 2621 |
| Examiner Name | |
| Attorney Docket Number | 103873-48191 |

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Sheet 2

of 3

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| | | Number-Kind Code ² (if known) | | | |
| See | | US- 6,314,197 B1 | 11-06-2001 | Jain et al. | |
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| | | US- 5,426,708 | 06-20-1995 | Hamada et al. | |
| | | US- 5,613,014 | 03-18-1997 | Eshera et al. | |
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| | | US- 6,185,318 B1 | 02-06-2001 | Jain et al. | |
| | | US- 2002/0012455 A1 | 01-31-2002 | Benckert | |
| | | US- 2002/0060243 A1 | 05-23-2002 | Janiak et al. | |
| | | US- 2002/0089410 A1 | 07-11-2002 | Janiak et al. | |
| | | US- 2002/0030359 A1 | 03-14-2002 | Bergenek et al. | |
| See | | US- 2002/0034322 A1 | 03-21-2002 | Lichtermann et al. | |
| | | US- 2002/0061125 A1 | 05-23-2002 | Fujii | |
| | | US- 2002/0018585 A1 | 02-14-2002 | Kim | |
| | | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
|-----------------------|--------------------------|---|-----------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Complete if Known | | | |
| | | Application Number | 09/677,257 | | |
| | | Filing Date | October 2, 2000 | | |
| | | First Named Inventor | John CATALANO | | |
| | | Art Unit | 2651 | | |
| | | Examiner Name | | | |
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| NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| SCC | ✓ | "An Improved Image Enhancement Scheme for Fingerprint Minutiae Extraction In Biometric Identification", source(s): Universidad Politenica de Madrid, 7-17-2002, Pages 1-9. Web address 216.239.37.100 | |
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| | ✓ | "Learning Fingerprint Minutiae Location and Type", author(s); Salil Prahakar, Anil K. Jain, Sharath Pankanti, September 3-8, 2000, pages 1-27 | |
| | ✓ | "A Fingerprint Classification Technique Using Directional Images", Yildiz Technical University | |
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| | ✓ | "Graphics and Security: Exploring Visual Biometrics", ComputerGraphics | |
| SCC | | "Verification Watermarks on Fingerprint Recognition and Retrieval", Minerva M. Yetung, Sharath Pankanti | |
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|--------------------|----------------|-----------------|----------|
| Examiner Signature | Sheela Chandra | Date Considered | 11/28/03 |
|--------------------|----------------|-----------------|----------|

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